

CLIPPEDIMAGE= JP361240573A

PAT-NO: JP361240573A

DOCUMENT-IDENTIFIER: JP 61240573 A

TITLE: ALKALINE BATTERY

PUBN-DATE: October 25, 1986

INVENTOR-INFORMATION:

NAME

NAKAMURA, TOSHIAKI

TSURUTA, SHINJI

ASSIGNEE-INFORMATION:

NAME

TOSHIBA CORP

COUNTRY

N/A

APPL-NO: JP60081256

APPL-DATE: April 18, 1985

INT-CL (IPC): H01M004/12;H01M006/06

ABSTRACT:

PURPOSE: To obtain a battery whose hydrogen gas evolution is substantially reduced without use of mercury by containing at least one selected from phosphine compounds and/or phosphine oxide compounds, and an organic ammonium salt in a negative active material.

CONSTITUTION: At least one selected from phosphine compounds indicated in the formula I (R<SP>1</SP>, R<SP>2</SP>, R<SP>3</SP> are H or organic radical of C<SB>1-24</SB>) and phosphine oxide compounds indicated in the formula II, and a quaternary ammonium salt indicated in the formula III (R<SP>4</SP>, R<SP>5</SP>, R<SP>6</SP>, and R<SP>7</SP> are organic radical of

C²⁻, and X is anion) are contained in a negative active material in an alkaline battery. Zn or Zn alloy with a small amount of In, Pb is used as negative active material. Since dissolution of Zn is prevented and H₂ gas evolution is retarded, a chemically stable battery is economically obtained.

COPYRIGHT: (C)1986,JPO&Japio